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| NEWS    | 1   |            |     | Web Page for STN Seminar Schedule - N. America           |
| NEWS    | 2   | APR        | 02  | CAS Registry Number Crossover Limits Increased to        |
| 111110  | _   | 711 10     | 02  | 500,000 in Key STN Databases                             |
| NEWS    | 3   | APR        | 0.2 | PATDPAFULL: Application and priority number formats      |
| 1411410 | J   | AL IV      | 02  | enhanced   |
| NEWS    | 4   | 7 DD       | 0.2 | DWPI: New display format ALLSTR available                |
| NEWS    | 5   | APR<br>APR |     | New Thesaurus Added to Derwent Databases for Smooth      |
| NEMS    | 5   | APK        | 02  | Sailing through U.S. Patent Codes                        |
| NEWS    | 6   | APR        | 0.2 | EMBASE Adds Unique Records from MEDLINE, Expanding       |
| MEMP    | ю   | APK        | 02  |  |
| NIDITO  | 7   | 7 DD       | 0.7 | Coverage back to 1948                                    |
| NEWS    | 7   | APR        | 0 / | 50,000 World Traditional Medicine (WTM) Patents Now      |
| NITITO  | 0   | 7 D.D      | 0.7 | Available in CAplus                                      |
| NEWS    | 8   | APR        |     | MEDLINE Coverage Is Extended Back to 1947                |
| NEWS    | 9   | JUN        | 16  | WPI First View (File WPIFV) will no longer be            |
|         | 1.0 |            | 1.0 | available after July 30, 2010                            |
| NEWS    |     | JUN        |     | DWPI: New coverage - French Granted Patents              |
| NEWS    | 11  | JUN        | 18  | CAS and FIZ Karlsruhe announce plans for a new           |
|         |     |            |     | STN platform   |
| NEWS    | 12  | JUN        | 18  | IPC codes have been added to the INSPEC backfile         |
|         |     |            |     | (1969–2009)  |
| NEWS    | 13  | JUN        | 21  | Removal of Pre-IPC 8 data fields streamline displays     |
|         |     |            |     | in CA/CAplus, CASREACT, and MARPAT                       |
| NEWS    | 14  | JUN        | 21  | Access an additional 1.8 million records exclusively     |
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|         |     |            |     | EMBASE Classic on STN                                    |
| NEWS    | 15  | JUN        | 28  | Introducing "CAS Chemistry Research Report": 40 Years    |
|         |     |            |     | of Biofuel Research Reveal China Now Atop U.S. in        |
|         |     |            |     | Patenting and Commercialization of Bioethanol            |
| NEWS    | 16  | JUN        | 29  | Enhanced Batch Search Options in DGENE, USGENE,          |
|         |     |            |     | and PCTGEN   |
| NEWS    | 17  | JUL        | 19  | Enhancement of citation information in INPADOC           |
|         |     |            |     | databases provides new, more efficient competitor        |
|         |     |            |     | analyses   |
| NEWS    | 18  | JUL        | 26  | CAS coverage of global patent authorities has            |
|         |     |            |     | expanded to 61 with the addition of Costa Rica           |
| NEWS    | 19  | SEP        | 15  | MEDLINE Cited References provide additional              |
|         |     |            |     | revelant records with no additional searching.           |
| NEWS    | 20  | OCT        | 0.4 | Removal of Pre-IPC 8 data fields streamlines             |
|         |     |            |     | displays in USPATFULL, USPAT2, and USPATOLD.             |
| NEWS    | 21  | OCT        | 04  | Precision of EMBASE searching enhanced with new          |
|         |     |            |     | chemical name field                                      |
| NEWS    | 22  | OCT        | 06  | Increase your retrieval consistency with new formats for |
|         |     |            |     | Taiwanese application numbers in CA/CAplus.              |
| NEWS    | 23  | OCT        | 15  | Selected STN databases scheduled for removal on          |
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=> s fluoroalkylsilane L1 63 FLUOROALKYLSILANE

=> s 11 and 12

L3 3 L1 AND L2

=> dup rem 13

PROCESSING COMPLETED FOR L3

L4 2 DUP REM L3 (1 DUPLICATE REMOVED)

 $\Rightarrow$  d 14 1-2 ibib abs

L4 ANSWER 1 OF 2 MEDLINE on STN DUPLICATE 1

ACCESSION NUMBER: 2008203526 MEDLINE DOCUMENT NUMBER: PubMed ID: 18361379

TITLE: A transparent and photo-patternable superhydrophobic film.

AUTHOR: Zhang Xintong; Kono Hiroki; Liu Zhaoyue; Nishimoto

Shunsuke; Tryk Donald A; Murakami Taketoshi; Sakai Hideki;

Abe Masahiko; Fujishima Akira

CORPORATE SOURCE: Kanagawa Academy of Science and Technology, West 614, KSP

Buildings, 3-2-1 Sakado, Takatsu-ku, Kawasaki, Kanagawa

213-0012, Japan.

SOURCE: Chemical communications (Cambridge, England), (2007 Dec 14)

No. 46, pp. 4949-51.

Journal code: 9610838. ISSN: 1359-7345. L-ISSN: 1359-7345.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

(RESEARCH SUPPORT, NON-U.S. GOV'T)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200804

ENTRY DATE: Entered STN: 26 Mar 2008

Last Updated on STN: 25 Apr 2008 Entered Medline: 24 Apr 2008

AB A transparent superhydrophobic TiO2 film, prepared by spin-coating a TiO2 slurry on a glass substrate and modifying the resultant TiO2 film with fluoroalkylsilane molecules, was patterned by illumination with ultraviolet light through a photomask, producing a superhydrophobic/superhydrophilic surface micropattern with very small superhydrophilic areas, which we were able to selectively fill with alginate hydrogel.

L4 ANSWER 2 OF 2 EMBASE COPYRIGHT (c) 2010 Elsevier B.V. All rights

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ACCESSION NUMBER: 2007198356 EMBASE

TITLE: Super-hydrophobic surfaces of layer-by-layer structured

film-coated electrospun nanofibrous membranes.

AUTHOR: Ogawa, Tasuku; Ding, Bin (correspondence); Sone, Yuji;

Shiratori, Seimei

CORPORATE SOURCE: Faculty of Science and Technology, Keio University,

Yokohama 223-8522, Japan. binding75@yahoo.com;

shiratori@appi.keio.ac.jp

AUTHOR: Ding, Bin (correspondence)

CORPORATE SOURCE: Fiber and Polymer Science, University of California, Davis,

CA 95616, United States. binding75@yahoo.com

AUTHOR: Shiratori, Seimei

CORPORATE SOURCE: SNT Ltd., Kawasaki 212-0054, Japan. shiratori@appi.keio.ac.

qŗ

SOURCE: Nanotechnology, (25 Apr 2007) Vol. 18, No. 16. arn. 165607.

Refs: 35

ISSN: 0957-4484; E-ISSN: 1361-6528 CODEN: NNOTER

PUBLISHER IDENT.: S 0957-4484(07)39035-1

COUNTRY: United Kingdom DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 027 Biophysics, Bioengineering and Medical

Instrumentation

029 Clinical and Experimental Biochemistry

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 9 May 2007

Last Updated on STN: 9 May 2007

We have recently fabricated super-hydrophobic membrane surfaces based on AB the inspiration of self-cleaning silver ragwort leaves. This biomimetic super-hydrophobic surface was composed of fluoroalkylsilane (FAS)-modified layer-by-layer (LBL) structured film-coated electrospun nanofibrous membranes. The rough fibre surface caused by the electrostatic LBL coating of TiO 2 nanoparticles and poly(acrylic acid) (PAA) was used to imitate the rough surface of nanosized grooves along the silver ragwort leaf fibre axis. The results showed that the FAS modification was the key process for increasing the surface hydrophobicity of the fibrous membranes. Additionally, the dependence of the hydrophobicity of the membrane surfaces upon the number of LBL coating bilayers was affected by the membrane surface roughness. Moreover, x-ray photoelectron spectroscopy (XPS) results further indicated that the surface of LBL film-coated fibres absorbed more fluoro groups than the fibre surface without the LBL coating. A (TiO2/PAA)10 film-coated cellulose acetate nanofibrous membrane with FAS surface modification showed the highest water contact angle of 162° and lowest water-roll

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FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 7.83 8.05

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HCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s fluoroalkylsilane

494 FLUOROALKYLSILANE

142 FLUOROALKYLSILANES

L5 560 FLUOROALKYLSILANE

(FLUOROALKYLSILANE OR FLUOROALKYLSILANES)

=> s "titanium dioxide"

632291 "TITANIUM"

81 "TITANIUMS"

632299 "TITANIUM"

("TITANIUM" OR "TITANIUMS")

619579 "DIOXIDE"

7291 "DIOXIDES"

621452 "DIOXIDE"

("DIOXIDE" OR "DIOXIDES")

L6 61052 "TITANIUM DIOXIDE"

("TITANIUM" (W) "DIOXIDE")

=> s 15 and 16

L7 6 L5 AND L6

=> dup rem 17

PROCESSING COMPLETED FOR L7

=> d 18 1-6 ibib abs

L8 ANSWER 1 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:873160 HCAPLUS

DOCUMENT NUMBER: 153:300345

TITLE: Carbon Nanotubes Noncovalently Functionalized by an

Organic-Inorganic Hybrid: New Building Blocks for Constructing Superhydrophobic Conductive Coatings

AUTHOR(S): Peng, Mao; Qi, Ji; Zhou, Zhi; Liao, Zhangjie; Zhu,

Zhongming; Guo, Honglei

CORPORATE SOURCE: MOE Key Laboratory of Macromolecular Synthesis and

Functionalization, Department of Polymer Science and Engineering, Zhejiang University, Hangzhou, 310027,

Peop. Rep. China

SOURCE: Langmuir (2010), 26(16), 13062-13064

CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

AB A facile method for constructing superhydrophobic, conductive, and transparent/translucent coatings is presented. Pristine multiwalled carbon nanotubes (MWNTs) are 1st noncovalently (wrapped) modified by an

organic-inorg. hybrid of an amphiphilic copolymer of styrene and maleic

anhydride and silica with the existence of

 $\gamma$ -aminopropyltriethoxysilane (a silane coupling agent). The modified MWNTs were mixed with tetra-Et orthosilicate in ethanol, air sprayed, coated with a fluoroalkylsilane, and then heat treated

to obtain the superhydrophobic, conductive, and transparent/translucent coatings. SEM shows that the coatings have a micrometer- and

nanometer-scale hierarchical structure similar to that of lotus leaves; therefore, they show both high water contact angles ( $>160^{\circ}$ ) and low sliding angles ( $<2^{\circ}$ ). The coatings also exhibit good transmittance and greatly improved conductivities. This method is convenient,

inexpensive, and easy to scale up. Also, it does not require any chemical

modification of the MWNTs or use any harsh chems.

REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:683758 HCAPLUS

TITLE: Fabrication of superhydrophobic surfaces of

titanium dioxide and nickel through

electrochemical deposition on stainless steel

substrate

AUTHOR(S): Hu, Yawei; Liu, Shan; Huang, Siya; Pan, Wei CORPORATE SOURCE: State Key Laboratory of New Ceramics and Fine

Processing, Department of Materials Science and Engineering, Tsinghua University, Beijing, 100084,

Peop. Rep. China

SOURCE: Key Engineering Materials (2010),

434-435 (High-Performance Ceramics VI), 496-498

CODEN: KEMAEY; ISSN: 1013-9826

PUBLISHER: Trans Tech Publications Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Binary microstructures at both micro- and nano-scale are constructed by the electrochem. depositing Ni and TiO2 on the stainless steel surface. Superhydrophobicity is achieved with a water contact angle greater than

150° after modifying the textured surface with

fluoroalkylsilane (FAS-17, CF3(CF2)7CH2CH2Si(OCH3)3). The

morphol. of the Ni-TiO2 compound coating is studied by SEM.

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1473653 HCAPLUS

DOCUMENT NUMBER: 148:342143

TITLE: A transparent and photo-patternable superhydrophobic

film

AUTHOR(S): Zhang, Xintong; Kono, Hiroki; Liu, Zhaoyue; Nishimoto,

Shunsuke; Tryk, Donald A.; Murakami, Taketoshi; Sakai,

Hideki; Abe, Masahiko; Fujishima, Akira

CORPORATE SOURCE: Kanagawa Academy of Science and Technology, 3-2-1

Sakado, Takatsu-ku, Kawasaki, Kanagawa, 213-0012,

Japan

SOURCE: Chemical Communications (Cambridge, United Kingdom)

(2007), (46), 4949-4951

CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

AB A transparent superhydrophobic TiO2 film, prepared by spin-coating a TiO2 slurry on a glass substrate and modifying the resultant TiO2 film with

fluoroalkylsilane mols., was patterned by illumination with UV

light through a photomask, producing a superhydrophobic/superhydrophilic surface micropattern with very small superhydrophilic areas, which we were able to selectively fill with alginate hydrogel.

OS.CITING REF COUNT: 20 THERE ARE 20 CAPLUS RECORDS THAT CITE THIS

RECORD (20 CITINGS)

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RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:32635 HCAPLUS

DOCUMENT NUMBER: 144:117481

TITLE: Electroluminescent device and its fabrication method INVENTOR(S): Itoh, Norihito; Tachikawa, Tomoyuki; Itoh, Kiyoshi

PATENT ASSIGNEE(S): Dai Nippon Printing Co., Ltd., Japan

SOURCE: U.S. Pat. Appl. Publ., 28 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

|       | PATENT NO.        | KIND | DATE     | APPLICATION NO. |    | DATE     |  |
|-------|-------------------|------|----------|-----------------|----|----------|--|
|       |                   |      |          |                 | -  |          |  |
|       | US 20060008742    | A1   | 20060112 | US 2005-155006  |    | 20050616 |  |
|       | US 7329479        | B2   | 20080212 |                 |    |          |  |
|       | JP 2006318876     | A    | 20061124 | JP 2005-155298  |    | 20050527 |  |
|       | GB 2416622        | A    | 20060201 | GB 2005-12232   |    | 20050616 |  |
|       | GB 2416622        | В    | 20090708 |                 |    |          |  |
|       | US 20080096129    | A1   | 20080424 | US 2007-952445  |    | 20071207 |  |
| PRIOR | ITY APPLN. INFO.: |      |          | JP 2004-192024  | Α  | 20040629 |  |
|       |                   |      |          | JP 2005-115469  | Α  | 20050413 |  |
|       |                   |      |          | JP 2005-155298  | Α  | 20050527 |  |
|       |                   |      |          | US 2005-155006  | А3 | 20050616 |  |
|       |                   |      |          |                 |    |          |  |

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The invention relates to a production process of an electroluminescent element, which, even when a buffer layer patterned by a photolithog. process is formed, luminescence failure derived from cross contamination or a variation in film thickness does not take place and can realize high

production efficiency. The production process entails repeating at least twice the step of forming an electroluminescent layer comprising a buffer layer and a luminescent layer by patterning using a photolithog. process, thereby producing an electroluminescent element comprising a patterned electroluminescent layer, and comprises the steps of forming a first pattern part comprising a first buffer layer as the lowermost layer; and coating a solution for second buffer layer formation in a region including said first pattern part, the first buffer layer being immiscible with said solution for second buffer layer formation.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1120936 HCAPLUS

DOCUMENT NUMBER: 144:436539

TITLE: Study on hydrophobic nano-titanium

dioxide coatings for improvement in corrosion

resistance of type 316L stainless steel

AUTHOR(S): Shen, G. X.; Du, R. G.; Chen, Y. C.; Lin, C. J.;

Scantlebury, D.

CORPORATE SOURCE: State Key Laboratory of Physical Chemistry of Solid

Surfaces, Department of Chemistry, Xiamen University,

Xiamen, 361005, Peop. Rep. China

SOURCE: Corrosion (Houston, TX, United States) (2005), 61(10),

943-950

CODEN: CORRAK; ISSN: 0010-9312

PUBLISHER: NACE International

DOCUMENT TYPE: Journal LANGUAGE: English

AB Using Et acetoacetate (EAcAc) as a chelating agent, titanium dioxide (TiO2) sol with ultra-fine particles has been prepared and deposited on Type 316L (UNS S31603) stainless steel to form a nano-TiO2 coating by the dip-coating. A hydrothermal post treatment method has been applied to obtain crack-free coatings and to optimize the surface structure and properties. A self-assembly of fluoroalkylsilane (denoted as FAS-13) has been conducted to enhance the hydrophobic property for the surface of the nano-TiO2 coatings. The particle sizes of TiO2 sol have been analyzed by ζ potential anal., and the surface morphol., structure, and properties have been characterized by contract angle, x-ray diffraction, and SEM measurements. The surface of the coatings is porous, with approx. 375 nm thickness; the diameter of the particles of anatase TiO2 is uniform, in the range from 15 nm to 18 nm. The electrochem. tests have indicated that the hydrophobic coatings of nano-TiO2 exhibit an excellent corrosion resistance.

OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD

(6 CITINGS)

REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 1999:402147 HCAPLUS

DOCUMENT NUMBER: 131:33028

TITLE: Treatment of a surface for generating an antiadherent,

thermally stable fluoroalkylsilane coating

INVENTOR(S): Mostefai, Malik; Shanahan, Martin E. R.; Meslif,

Alain; Fayet, Florence

PATENT ASSIGNEE(S): Gaz de France, Fr. SOURCE: Fr. Demande, 19 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

| PATENT NO.                               | KIND     | DATE                    | APPLICATION NO.                                   | DATE            |
|--|----------|-------------------------|---|-----------------|
| FR 2768947                               | A1       | 19990402                | FR 1997-12084                                     | 19970929        |
| FR 2768947 PRIORITY APPLN. INFO.:        | B1       | 19991224                | FR 1997-12084                                     | 19970929        |
| OTHER SOURCE(S):  AB The title process   |          | [ 131:33028             | at least part of the sur                          | rface with a    |
| fluoroalkylsilane                        | and (B10 | CO2)z1(B2CO2)           | z2MB3z3B4z4 (M = Si, Ti                           | l, Zr,          |
| A1; B1, B2, B3, B4<br>valence of M, z1 + | •        |                         | z3, $z4$ , = 0-4 and the sue $zr02$ , or $zr02$ . | 1m  of  z1-z4 = |
| OS.CITING REF COUNT:                     | 2        | THERE ARE 2 (2 CITINGS) | CAPLUS RECORDS THAT CIT                           | TE THIS RECORD  |
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63 S FLUOROALKYLSILANE L1

17087 S "TITANIUM DIOXIDE" L2

L3 3 S L1 AND L2

L42 DUP REM L3 (1 DUPLICATE REMOVED)

FILE 'HCAPLUS' ENTERED AT 12:20:29 ON 15 OCT 2010

L5 560 S FLUOROALKYLSILANE

61052 S "TITANIUM DIOXIDE" L6 6 S L5 AND L6 L7

L8 6 DUP REM L7 (0 DUPLICATES REMOVED)

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